

Converting Colors

$Y_{xy}(31.6900, 0.5304, 0.4170)$

Have a look what the booklet for
Yxy(31.6900, 0.5304, 0.4170)
contains.

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Color

Yxy(31.6562, 0.5306, 0.4169)

Conversions

Conversions Part 1

Format	Color
Hex	E77D00
RGB	231, 125, 0
RGB Percent	91%, 49%, 0%
CMY	0.0941, 0.5098, 1.0000
CMYK	0.00, 0.46, 1.00, 0.09
HSL	32°, 100%, 45%
HSV	32°, 100%, 91%
XYZ	40.2897, 31.6562, 3.9864
YIQ	142.4440, 103.3010, -16.4030

Conversions

Conversions Part 2

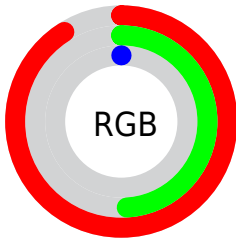
Format	Color
RYB	196, 231, 0
Decimal	15170816
CIELab	63.06, 34.83, 69.90
CIELCh	63, 78.093, 63.512
Yxy	31.6562, 0.5306, 0.4169
Android (android.graphics.Color)	4293360896 (0xFFE77D00)
YUV	142.4440, -70.2249, 77.6636
Hunter-Lab	56.2638, 29.3595, 35.1838

Details

The Yxy color **31.6562, 0.5306, 0.4169** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **16.0777, 0.1728, 0.1419**, and the grayscale version is **27.4903, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.9551, 0.4652, 0.4291**, and **13.2224, 0.5569, 0.3960** is the 20% darker color. If you saturate the color by 10%, you get **31.6579, 0.5306, 0.4169**, and if you desaturate by 10%, it is **34.5489, 0.5124, 0.4229**.

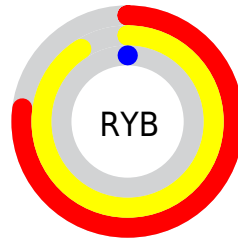
Distribution



Red (91%)

Green (49%)

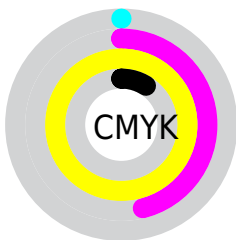
Blue (0%)



Red (77%)

Yellow (91%)

Blue (0%)

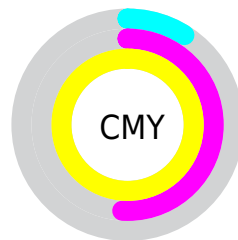


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (9%)



Cyan (9%)


Magenta (51%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.6562, 0.5306, 0.4169 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 31.6562, 0.5306, 0.4169 by changing the saturation by 10% instead.


 31.6562, 0.5306,
0.4169


 31.6562, 0.5306,
0.4169


309.5501, 0.4252,
0.3888


 21.0990, 0.5516,
0.4164


 62.2717, 0.4955,
0.4120


 13.1964, 0.5772,
0.4133


 83.0989, 0.4812,
0.4085


 7.5639, 0.6003,
0.3997


 108.1182, 0.4686,
0.4049

 3.8172, 0.6256,
0.3744

 137.7139, 0.4577,
0.4013

 1.5718, 0.6649,
0.3351

 172.2706, 0.4480,
0.3979

 0.3385, 0.7824,
0.2176


 212.1726, 0.4395,

 0.0000, 1.0000,

0.3947


0.0000

 257.8043, 0.4319,
0.3917


 0.0000, 0.0000,
0.0000

 31.6562, 0.5306,
0.4169


 31.6562, 0.5306,
0.4169

 31.6579, 0.5306,
0.4169

 34.5489, 0.5124,
0.4229

 37.8092, 0.4908,
0.4240

 41.4707, 0.4663,
0.4198

 45.5551, 0.4405,
0.4112

 50.0814, 0.4147,
0.3994

■ 55.0671, 0.3902,
0.3858

■ 60.5284, 0.3676,
0.3713

■ 66.4805, 0.3471,
0.3567

■ 72.9376, 0.3288,
0.3425

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



31.6562, 0.5437, 0.3385



31.6562, 0.5306, 0.4169



31.6562, 0.4563, 0.5009

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.6562, 0.5306, 0.4169



31.6562, 0.1649, 0.3783



31.6562, 0.2314, 0.1703

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



31.6562, 0.5306, 0.4169



16.0777, 0.1728, 0.1419

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



31.6562, 0.1593, 0.1608



31.6562, 0.5306, 0.4169



31.6562, 0.1262, 0.2508

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.6562, 0.5306, 0.4169



31.6562, 0.2478, 0.5190



31.6562, 0.1260, 0.1832



31.6562, 0.3452, 0.2075

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.6562, 0.5306, 0.4169



31.6562, 0.3897, 0.5467



31.6562, 0.1260, 0.1832



31.6562, 0.2026, 0.1639

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



31.6579, 0.5306, 0.4169



75.6268, 0.3679, 0.3715



18.0681, 0.5133, 0.2601



15.5522, 0.3773, 0.3777



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.6579, 0.5306, 0.4169



39.4340, 0.5313, 0.4163



72.8902, 0.4135, 0.5099



15.6537, 0.3279, 0.3417



17.9985, 0.5283, 0.4187



1.5154, 0.5081, 0.4348

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



16.0777, 0.1728, 0.1419



19.9450, 0.1725, 0.1409



5.8194, 0.1508, 0.0604



14.9714, 0.2981, 0.3159



9.2551, 0.1736, 0.1448



0.8679, 0.1813, 0.1725

Previews

White Background



This preview shows how the Yxy color 31.6562, 0.5306, 0.4169 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 31.6562, 0.5306, 0.4169 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.6562, 0.5306, 0.4169

Background



This preview shows how black text looks on a background with the Yxy color 31.6562, 0.5306, 0.4169.



This preview shows how white text looks on a background with the Yxy color 31.6562, 0.5306, 0.4169.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

31.6562, 0.5306, 0.4169

Protanopia

32.0425, 0.4365, 0.4838

Deuteranopia

31.5883, 0.4716, 0.4638



Tritanopia

31.6082, 0.4477, 0.3206

Trichromacy



Original Color

31.6562, 0.5306, 0.4169

Protanomaly

31.1408, 0.4730, 0.4583

Deuteranomaly

31.4424, 0.4939, 0.4460

Tritanomaly

31.2506, 0.4969, 0.3702

Monochromacy



Original Color

31.6562, 0.5306, 0.4169

Achromatopsia

27.0498, 0.3127, 0.3290

Achromatomaly

27.3452, 0.4078, 0.3968

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.6562, 0.5306, 0.4169 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(231, 125, 0)` looks like.

```
.text, #text, p{  
    color:rgb(231, 125, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(231, 125, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 125, 0) }
```

Border

The CSS property to change the border of an element to Yxy 31.6562, 0.5306, 0.4169 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(231, 125, 0) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(231, 125, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(231, 125, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 125, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 125, 0);  
box-shadow:4px 4px 4px 4px rgb(231, 125,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 31.6562, 0.5306, 0.4169 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 125, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(231,  
125, 0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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